



PATENT
Attorney Docket No. 98-027
Express Mail No. EL730648566US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Verne C. Hornbeck and)
Derryl D.J. Allman)
Serial No. 09/217,183)
Filed: December 21, 1998)
For: ON-CHIP GRADED INDEX OF)
REFRACTION OPTICAL)
WAVEGUIDE AND)
DAMASCENE METHOD OF)
FABRICATING THE SAME)

Group Art Unit: 2877

Examiner: L. G. Lauchman

#18.2
marsha
9/2/01

AMENDMENT AND RESPONSE TO FIRST OFFICE ACTION

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

In response to the Office Action mailed March 30, 2001, please amend the application as set forth below.

In the Claims:

Cancel claims 13-26.

Amend original claims 3-5 and 7 into the form appearing below.

Add new claims 27-29 in the form below.

Attached is version of the presently pending claims compared to the form of those claims existing prior to this Amendment and Response.

1. (Original) A graded index of refraction waveguide formed in an integrated circuit-like structure having a substrate, comprising:

at least one layer of dielectric material positioned above the substrate and defining a trench having side walls, the dielectric material having an

5 index of refraction;